Development prospects of the suspension system for high-speed tracked vehicles

© E.B. Sarach[1], G.O. Kotiev[1], I.A. Smirnov[2]

[1]Bauman Moscow State Technical University, Moscow, 105005, Russia
[2] Moscow Highest Military Command School, Moscow, 109380, Russia

The article deals with the development pro spects of the suspension system for the tracked vehicles to increase their agility. The paper presents current techniques to define characteristics of a conventional suspension system. Nonconventional solutions such as controlled, multilevel and semi-independent suspension systems are proposed.

Keywords: *high-speed tracked vehicles, agility, ride comfort, suspension system.*

Sarach E.B. (b. 1975) graduated from Bauman Moscow State Technical University in 1999. Dr. Sci (Eng.), Professor of the Multipurpose Tracked Vehicles and Mobile Robots Department at Bauman University. Author of 40 publications in the field of transport machinery. e-mail: sarach@yandex.ru

Kotiev G.O. (b. 1967) graduated from Bauman Moscow State Technical University in 1991. Dr. Sci (Eng.), Professor Head of the Wheel vehicles Department at Bauman Moscow State Technical University. Author of 100 publications in the field of transport machinery.

Smirnov I.A. (b. 1964) graduated from the Tula Highest Artillery School in 1986. Head of Chair of Arms and Military Equipment of the Moscow Highest Military Command School. Author of 5 publications in the field of transport machinery.